

June 1, 2014

Revised By: Date:



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 924 AND BOX HILL SOUTH PARKWAY /PORTER DRIVE IN HARFORD COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR THE SOUTHBOUND APPROACH. MD 924 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH SPLIT-PHASING FOR BOX HILL SOUTH PARKWAY AND PORTER DRIVE AS WELL AS EMERGENCY PRE-EMPTION FOR BOX HILL SOUTH PARKWAY. THE INTERSECTION WILL NOW OPERATE IN A NEMA FIVE-PHASE, FULLY-ACTUATED MODE WITH SPLIT PHASING FOR BOTH BOX HILL SOUTH PARKWAY AND PORTER DRIVE AND AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 924. PRE-EMPTION WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

QUANTITY	DESCRIPTION
NONE	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
7 EA	12 IN. L.E.D. SIGNAL HEAD SECTION
3 EA	8 IN. L.E.D. SIGNAL HEAD SECTION
100 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
1 EA	VIDEO DETECTION CAMERA AND CABLE
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
1 EA	RELOCATE OVERHEAD SIGN

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

QUANTITY	DESCRIPTION
NONE	

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 229-2380

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 229-2361

MR. MICHAEL PASQUARIELLO
UTILITY ENGINEER
(410) 229-2341

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE DAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. MIKE STOCKER
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

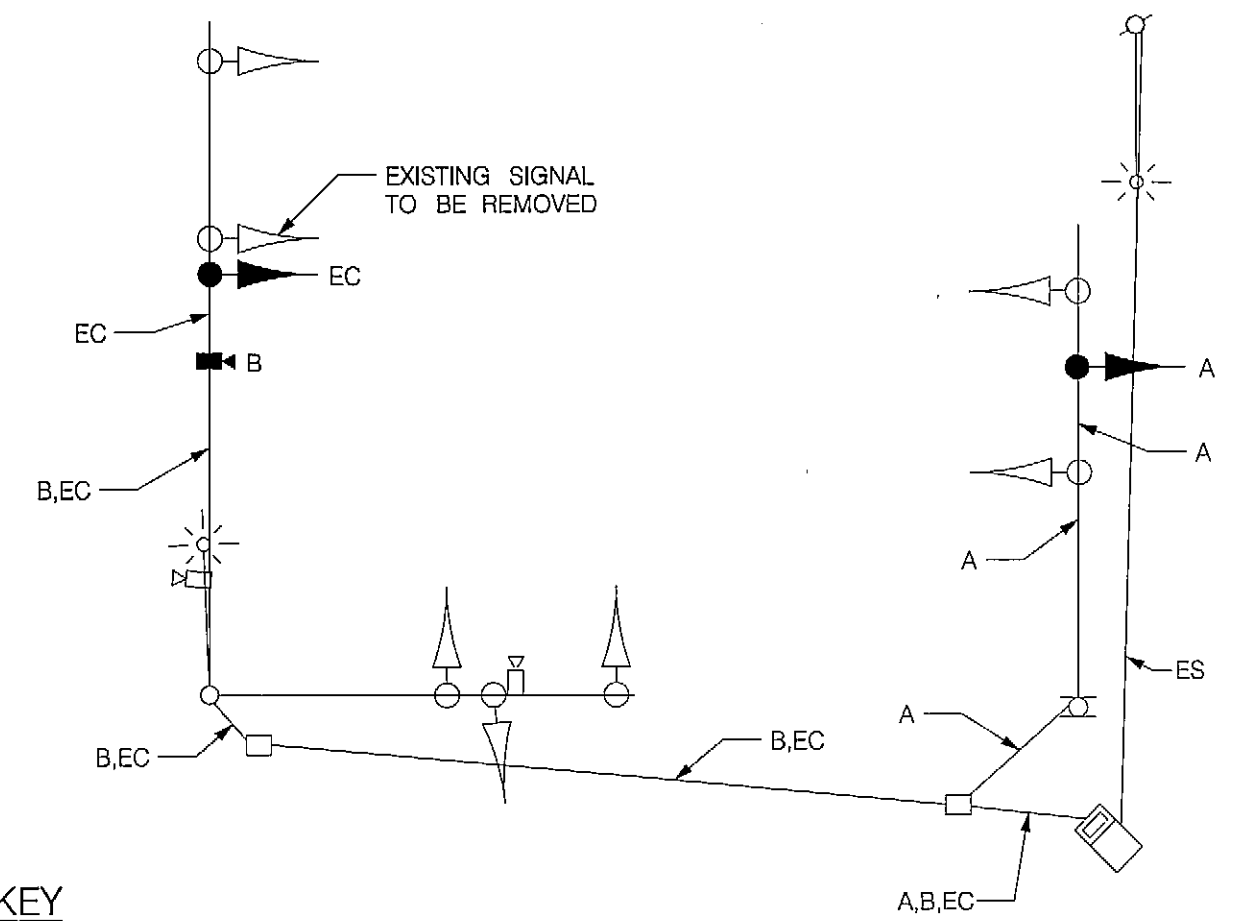
MR. ED RODENHIZER
CHIEF - SIGNAL OPERATIONS SECTION
(410) 787-7652

PHASE CHART



	1	2	3	4	5	6	7	8	9	10
PHASE 2 & 5	R	R	G	G	G	R	R	R	R	R
2 & 5 CHANGE	R	R	G	G	G	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R
PHASE 3	R	R	R	R	R	G	R	R	R	R
3 CHANGE	R	R	R	R	R	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	R	R	Y	Y	Y
EMERGENCY PRE-EMPTION 1	R	R	R	R	R	R	R	G	G	G
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR

WIRING DIAGRAM



WIRING KEY

A	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B	VIDEO DETECTION CABLE
ES	EXISTING SERVICE FEED
EC	EXISTING CABLE

SHA TRACKING NO. 11-AP-HA-015



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 924 (EMMORTON RD) AND
BOX HILL SOUTH PKWY./PORTER DR.
ABINGDON, MARYLAND

GENERAL INFORMATION PLAN

SCALE NONE DATE 7-20-2012 CONTRACT NO. BW996M62

DESIGNED BY T. ZAYDEL COUNTY HARFORD
DRAWN BY M. ROSEN LOGMILE 12092400.45
CHECKED BY K. SCHMID T.I.M.S. NO. L388
F.A.P. NO. TOD NO.

DRAWING NO. TS-3789E - GI SHEET NO. 2 OF 2

TRAFFIC CONCEPTS, INC.

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